

JUSTIFICATION  
OF  
MR MURDOCH M'KENZIE'S  
NAUTICAL SURVEY  
OF THE  
ORKNEY ISLANDS AND HEBRIDES,  
IN ANSWER TO  
THE ACCUSATIONS OF  
DOCTOR ANDERSON.

---

EDINBURGH:  
PRINTED FOR WILLIAM CREECH.

M,DCC,LXXXV.

46

5 5  
290



# JUSTIFICATION

OF

MR MURDOCH M'KENZIE'S

## NAUTICAL SURVEY.

**A**S the nautical knowledge of the Orkney islands, and the western coasts of Scotland, was of great importance to the navigation of Britain, Mr Murdoch M'Kenzie, a man of science, conceived the plan of making a survey, for the direction of mariners unacquainted with those seas. This he executed, with regard to the Orkneys, at his own expence. The merit of the performance was conspicuous. The success of the undertaking attracted the attention of the public. Mr M'Kenzie was afterwards employed by government to extend the survey; and he in a manner spent his lifetime in that service. The national benefit derived from his labours can only be known from the estimation in which



which his charts are held by mariners; but, to a man of knowledge, the simple inspection of the charts is sufficient to convince him with regard to the pains and labour employed in that undertaking.

Dr Anderson, a man who had no pretensions to the knowledge of nautical surveying, or to the use of charts, made a public attack upon Mr M'Kenzie's works. He represented the charts as extremely erroneous, and dangerous to mariners; and he insinuated, that the survey had been an imposition on the public. The printer of the Caledonian Mercury received his friend Dr Anderson's accusation into his paper. A public correspondence was then commenced through that channel, and papers were alternately received from both sides.

But the printer having now, for reasons best known to himself, refused to receive an answer to Dr Anderson's last letter, which was intended to contain a number of certificates from many gentlemen of Liverpool, Leith, &c. who will be allowed to possess the greatest professional knowledge. The friends of Mr M'Kenzie, and of truth, therefore, think it necessary to publish the whole of the correspondence, which, when brought under review, will expose the conduct of Dr Anderson, and justify the character of Mr M'Kenzie, whose behaviour, in relation to the Public, will ever be ready to meet a fair inquiry.



*First Attack against Mr M'Kenzie's Charts.**Caledonian Mercury, Nov. 3. 1784.*

WE hear that Dr Anderson, since his return from the Hebrides, complains much of the inconveniencies that navigators in those seas are subjected to, from the want of accurate maps and charts of those coasts. He carried with him the surveys of the western coasts of Scotland, &c. that were published some years ago by Mr Murdoch M'Kenzie, which he compared carefully with the places as he went along; but he soon found that no person can rely upon these with safety, as they are in many cases extremely erroneous, both with respect to bearings and to distances; and all the harbours he has been in are so imperfectly laid down, both as to form and dimensions, that he is convinced not one of them has been delineated from actual surveys, but imagines they must have been sketched by the eye only, and *that* even in a hasty and superficial manner. Dangerous funk rocks, that are well known to the natives of these coasts, in the entry to harbours, and in narrow sounds, are often entirely omitted, and others are laid down in places where they ought not to be; so that vessels which sail by these charts (as has sometimes actually happened) may be put upon the very rocks that they were endeavouring to avoid. If we are rightly informed, this survey by Mr M'Kenzie was done at the public

public expence, and cost no inconsiderable sum of money.—If so, and if the charts be so faulty as is above represented, the public has much room to complain. We, as wellwishers to our country, cannot but regret that such an abuse, if it really be so, should not have been sooner discovered, as it will naturally make the members of administration more shy to advance money for public undertakings in Scotland than they otherwise might have been, if they had seen that the persons interested in these public undertakings had been more watchful to prevent abuses. On this head we may be further allowed to regret, that the map of Scotland, which was drawn by Colonel Roy, in the years 1747, 1748, and 1749, and which, we are told, is no less remarkable for its accuracy, than for the elegant manner in which the hills and valleys are delineated upon, it, should not have been published. If certain political reasons seemed to render the publication of it improper at the time it was made, these, it is presumed, do not now exist. And as the King has, on all occasions, shewed a most laudable desire to promote the improvements of every part of his dominions, we cannot help thinking, that, if the gentlemen of Scotland were, in a respectful manner, to petition his Majesty to permit that map to be published, he would readily comply with their prayer. If this were done, it would tend much to facilitate the improvement of Scotland, as it would not only give foreigners a more adequate idea of that country than they can possibly obtain from the faulty maps which

which now exist, but would even suggest to the natives themselves an idea of the manner of opening communications between different places, which they have not at present in contemplation.

*Mr M'Kenzie's Answer.*

S I R,

*Mercury, Nov. 17. 1784.*

MR M'KENZIE, by the infirmity of years and bodily ailments, unable to give application to what must require thought and attention of mind, finds himself ill qualified to enter the lists, or even perhaps to attempt an answer, to the author of the paragraph in your paper of the 3d of November. But, conscious of his own integrity, he begs leave to assure the public, that with accuracy, fidelity, and care, he executed the trust reposed in him, of carrying on a nautical survey, in consequence of instructions received from the Lords of Admiralty; in which he has pointed out the best tracts, and the properest anchorage, as far as necessary for the safety of shipping. And he submits the merit of his survey, the work of many years, upon the only proper test, the approbation of those *alone* who are most interested, and best qualified to judge, *seamen*, the masters of vessels of all kinds, who, after the continued use of the said surveys from ten to thirty years, have never once found fault, so far at least as has come to his knowledge.

On



On the contrary, as a proof of their accuracy, there has arisen amongst seamen, with regard to the use of these charts, a proverbial expression, which, in the circumstances he is in at present, authorises him to repeat, That he who has M<sup>c</sup>Kenzie's charts, when navigating these coasts, needs no pilot.

At the same time, if any rock or shoal has happened to escape Mr M<sup>c</sup>Kenzie's most laborious search and assiduous inquiry, (which is far from being impossible) Mr M<sup>c</sup>Kenzie thinks he has a right, in justice to the public who employed him, and for the general interest of mankind, exclusive of any consideration for himself, to call upon Dr Anderson, (who he believes to be the author of the paragraph), to condescend upon those errors and neglects, which may be dangerous to seamen who trust in those charts, and which, it is pretended, that Dr Anderson has discovered, in order that those corrections, if found just, may be inserted in the draughts, for the purpose of any future publication.

*Dr Anderson's Second Attack.*

*Mercury, Nov. 27. 1784.*

DR ANDERSON is sorry that Mr M<sup>c</sup>Kenzie should have felt himself so much hurt by the paragraph in this paper of the 3d instant, as to think it necessary to call upon him, in a public manner, for explanations, which, if entered into, can only add to the distress of which he complains. To find fault is, in all cases, disagreeable ;

able; but it becomes doubly so to the feeling mind, when it has a chance of adding to the distress which natural infirmities usually bring upon man in the decline of life. He, therefore, wishes to avoid entering farther into the question with Mr M'Kenzie at present, unless Mr M. shall think of again calling upon him for that purpose.

The obligations Dr Anderson is under to the public, however, forbid him not to observe, that, after having read the paragraph complained of, he must candidly own, that it gives a very faithful representation of the language he has invariably held since his return from the Hebrides, whenever that subject was introduced into conversation. He would think himself to blame if he should either misrepresent, palliate, or conceal such facts as have fallen under his observation, more especially when these are of great national moment. It was this consideration, and this alone, which induced him, and must continue to induce him, to speak on that subject as he has done. Unacquainted as he is with Mr M'Kenzie, and altogether a stranger to his character in every respect, he could not, in that particular, be influenced by any personal ill-will. Justice requires that a man, in the public discharge of his duty, should frequently be obliged to give pain to his dearest connections, though, while he wounds, his heart bleeds for every stripe he reluctantly imposes: And Dr Anderson assures Mr M'Kenzie, with the utmost sincerity, that it would afford him infinitely more

B

pleasure

pleasure to be able to encrease his enjoyments, than to add to his chagrin.

Influenced by the same principle of benevolence, Dr Anderson thinks it his duty to state the following fact to Mr M'Kenzie, as, without an explanation, it seems to bear more hard upon his character than any thing that has occurred ; and, as it is possible Mr M'Kenzie may have been abused himself with regard to it, he wishes to give him a public opportunity of vindicating himself from the public imputation it implies.

Many years ago Mr M'Kenzie published a set of charts under the title of *Orcades* ; the last of which maps contains a chart of Lewis : In that map, the rock called *Skerinoe*, near the Schant Islands, is laid down about four miles out of its proper place. In a future survey he made of the west coast of Scotland, and islands, that rock of Skerinoe is laid down nearly in its proper place : He, therefore, had then discovered his error, and very properly corrected it. But the circumstance which reflects the highest blame in this case is, that the first set of maps continue to be sold to this day, without the smallest mark of correction as to this particular. Dr Anderson purchased both sets of maps, above mentioned, from Mr Coke in Leith, upon the 15th or 16th of July last, and has them now in his possession ;—but, should a shipmaster have had only the first set, and have sailed by it, the danger he would there have run of shipwreck is obvious. It has been said, that pirated copies of these maps have been sold ;  
perhaps



perhaps this copy may be one : It bears to be printed at London, for the author, by C. Say, Newgate-street. Dr Anderson hopes a satisfactory explanation of this will be given ; and that effectual measures will be taken to prevent this erroneous chart from being sold for the future. He was informed, that, some years ago, a Liverpool vessel, sailing by that chart, actually struck upon that rock, in a very fine day, and every thing was lost but the men, who saved themselves in the boat.

Desirous of disturbing Mr M<sup>c</sup>Kenzie as little as possible, Dr Anderson wishes here to close this public correspondence. If any of Mr M<sup>c</sup>Kenzie's friends wish for private information as to particulars, and will take the trouble to call upon the Doctor at his own house, he will endeavour to satisfy them as to the propriety of his remarks. If he shall be again called on in a public manner, he will consider himself as under no restraints from a principle of delicacy ; and will hold himself justified if he writes with candour, and without reserve.

*Mr M<sup>c</sup>Kenzie's Answer.*

S I R,

*Mercury, Dec. 11. 1784.*

I BEG leave, through the channel of your paper, to recal the attention of the Public to Dr Anderson's accusation of Mr M<sup>c</sup>Kenzie's surveys, the Public being highly interested in judging how far those accusations,  
of

of a work of such magnitude and importance, be either on the one hand true, or on the other false.

Dr Anderson has represented those charts as erroneous and dangerous ; and has insinuated, if not declared, that the public money had been mis-spent, in being laid out for surveys that were nothing but a species of imposition. In support of this charge, the Doctor has condescended upon one particular, of which the Public is now to judge. But, to enable those, who never had an opportunity of examining the subject, it will be necessary to give a short account of the origin of those surveys.

The survey of the Orkneys was the first undertaken by Mr M'Kenzie. It was made at his own expence, and published at his own risk. In this work there is also a chart of the Lewis, which he in part surveyed.

These charts were found so accurate, so useful, and so well received by the Public, that Mr M'Kenzie was employed by government, to survey the west coast of Britain, and the coasts of Ireland. In this survey, Mr M'Kenzie begins with the Lewis, the survey of which had not been completed in his private labour ; consequently, of this there is published a more perfect chart.

Dr Anderson, in acknowledging that the funk rock Skerinoe, near Schant Islands on the coast of Lewis, is properly laid down in the last chart, complains of its being misplaced in the first ; and he accuses Mr M'Kenzie of having suffered the first of those charts, in which he finds an error, ' to be sold even to this day, without

‘ out the smallest mark of correction as to this particular.’

These are two distinct charges against Mr M‘Kenzie ; the one relates to the accuracy of the surveys ; the other is personal to Mr M‘Kenzie, by affecting his moral character. It is only with the first of these that the Public is here concerned ; Mr M‘Kenzie’s moral character requires no advocate.

The charge against the accuracy of Mr M‘Kenzie’s first publication will be best answered by reading what Mr M‘Kenzie has there said in relation to the subject. In page 3d, there is a chapter entitled, ‘ Manner of taking the survey of the Orkneys and Lewis, with the ‘ perfections and imperfections of the charts.’—Then, having described his manner of taking the survey of the Orkneys, he thus proceeds :

‘ The Lewis was surveyed in the same manner ; only ‘ most of the lesser islands there were done by the eye, ‘ *the coast between Loch-shell and Loch-sea Fort, by information ;* and no soundings taken but within the bays.’ Now, it is to be observed, the rock Skerinoe and Schant Islands lie precisely on the coast between Loch-shell and Loch-sea Fort.—Therefore, the sunk rock Skerinoe could not be surveyed in this chart ; and Mr M‘Kenzie has warned every man, who is to use his charts, of this ; that so the mariner may avoid the danger of failing by the chart of a coast which had not been surveyed.

It



It would appear that Dr Anderson has a great deal more to bring out in support of his general charge against Mr M'Kenzie's surveys, as being dangerous in misguiding the navigation of those seas ; and he has promised, if again called upon in a public manner, to write with candour, and without reserve. Now, as I hope to have satisfied the Public, that the only error specified in Dr Anderson's vague accusation is perfectly groundless, and the chart complained of irreproachable on the part of Mr M'Kenzie, I think I have a right, both as a wellwisher to the Public, and a friend of Mr M'Kenzie, to call upon Dr Anderson to wave his principle of delicacy on this occasion, and publish those errors by which the lives and fortunes of many of his countrymen are every day exposed to danger. The Doctor may rest assured, that Mr M'Kenzie's feelings have not been disturbed by what he has already published ; nor is there any reason to believe that they ever will be affected by what further he can say ; for, if it be a discovery of any value, (as a work of this kind cannot be warranted free of imperfection), Mr M'Kenzie will never regret the improvement of his charts ; but, if it be only a trifling criticism, or any unjust accusation, the Doctor will only expose himself to ridicule and contempt.

*Dr*

*Dr Anderson's Third Attack.*

S I R,

*Mercury, Dec. 18. 1784.*

AS Mr Mackenzie, not satisfied with the mild reply Dr Anderson made to his former remarks, still calls on him to produce examples of the erroneousfness of his charts, the Doctor, though with reluctance, will now specify a *few* particular cafes,—though to go through the whole would far exceed the bounds that can be allotted to it in your paper.

Though Dr Anderson did not go with a purpose to survey these coasts for the making of charts, and pretends to have made no discovery of any rocks that were not well known to the people who frequent those seas, yet he is able to condescend upon many places that are so exceedingly erroneous, as to be discoverable by the eye of even a superficial observer of those countries. The following are a few :

By Mr Mackenzie's map, a right line drawn from the point of Ardinrider, forming the north-east side of the Sound of Mull, to the Castle of Dunstaffnage, would pass clear of the south-west point of the island of Lismore, leaving that island to the north of it near one mile ;—whereas, in reality, a line drawn between these two points would cut the island of Lismore between two and three miles to the north of that point.

Again : From the Bay of Ardmurkinish at the house of Lochnel to Loch Creran, as laid down by Mr Mackenzie,

kenzie, is a distance of between *five* and *six* miles ;—whereas, in reality, it scarcely measures *one* mile.

The coast on the south side of Loch Crinan, by Mr Mackenzie's chart, bears in a direction so as to fall within (to the eastward of) Duntroon Castle ;—whereas it points to the east entry into Loch Craignish, between one and two miles westward of Duntroon.

In the harbour of Crinan also, the island Daviero in Mr Mackenzie's map is nothing like its real shape, and lies in a very different direction, the eastmost side of it pointing nearly N. W. in the chart ; whereas it points nearly N. E. towards the Castle of Duntroon. The small rock in that harbour is equally erroneously laid down, as it really lies in a right line between the head land to the east of the Island Daviero and the Castle of Duntroon, about one third over, instead of lying close by the west point of that island, as in the map. The draught of the harbour in other places is equally erroneous.

In the harbour of Loch Boisdale in South Uist, are two sunk rocks near the entry, both of them erroneously laid down by Mr Mackenzie.—And in the survey of the harbour itself, several islands of considerable extent, not under six or eight acres, are not so much as delineated at all.

In the harbour of Tarbet in Harris are many inaccuracies ; several islands quite out of their places, and of a different form from what they bear ; and several sunk  
rocks



rocks also very much out of their true place. It is not possible here to specify these exactly.

The distance between East and West Loch Tarbet in Harris is about 600 yards;—whereas in chart XXXI, the distance between East and West Tarbet is *one* mile, and between Loch Stockinish and West Loch Tarbet is only *three* miles and an half; but in chart XXIX, Loch Stockinish, which is the nearest water to the east of West Loch Tarbet, is *six* miles distant.—In both cases the errors are great. And any person who has the plates can compare them with each other.

From the head of Lochindaal, in Sky, Loch Effort, by Mackenzie's charts, bears W. by S. nearly distant *five miles and an half*;—whereas it really bears from Lochindaal about N. N. W. distant about *one* mile. Here is a difference of *seven* points in the bearing, and an error of more than *four* times the distance.—From the same Lochindaal to Broadford is by Mackenzie a bearing of N. by W.  $\frac{1}{2}$  Westerly, distant *eight* miles,—though it really bears about N. Westerly, distant about *four* miles.

Dr Anderson will not take up your time with farther specifications of this sort, nor with altercations about the character that either Mr Mackenzie or his maps bear; though he owns, that his ideas of moral rectitude are not the same with those of the man who can so easily satisfy himself with the propriety of selling a chart, *knowing it to be erroneous*, for twenty years together, as Mr Mackenzie acknowledges he has done. Had

no material error been discovered by Mr Mackenzie, the slight apology that has been made might perhaps been admitted. But, in the present case, especially after the melancholy accident mentioned in his last address, Dr Anderson thinks it requires such a degree of casuistry to satisfy the mind, as, with very little address, may reconcile it to other things, that mankind in general are disposed to look upon as highly culpable.

But, to put an end to all farther altercations on this subject, Dr Anderson will here make one very plain proposal, which will at once decide the matter in dispute. As Mr Mackenzie seems to pride himself on the unequalled accuracy of his maps, he can surely have no exception to get that accuracy ascertained by one single trial. Dr Anderson, therefore, hereby makes offer to accompany Mr Mackenzie, or any person he shall appoint, to make an actual survey of the harbour of Loch Boisdale in South Uist, on this condition, that, if Mr Mackenzie's chart of that harbour shall prove to be accurate, Dr Anderson shall pay all the expence of the survey, with a reasonable allowance to Mr Mackenzie for his trouble; provided that Mr Mackenzie, on his side, agrees to pay the whole expence, together with a reasonable gratification to Dr Anderson for his trouble, if the printed map of that harbour shall be found to be erroneous.—With these candid remarks, and this fair proposal, Dr Anderson, on his part, here closes this controversy, not intending to say any thing further on  
this

this subject till the survey is made, -when he would propose that the accurate survey should be published.

*P. S.* Dr Anderson condescends upon Loch Boisdale above, not because he thinks it less accurate than others, but because he thinks it an uncommonly fine harbour, and therefore wishes the public to be possessed of an accurate plan of it. If Mr Mackenzie is not satisfied with the *one* trial above mentioned, Dr Anderson will, if he chuses it, name several other places, which he is ready to get surveyed on the same terms.

*Answer.*

S I R,

*January 24. 1785.*

I FIND myself obliged again to undertake the justification of Mr Mackenzie's charts. I do it willingly, both out of friendship to the author, and for the pleasure of defending, against calumny, a work which, I think, does honour to the nation. I am to begin with some remarks on Dr Anderson's reply to my last, in order to give a view either of the capacity or the disposition of the accuser.

Dr Anderson had accused Mr Mackenzie's charts of being so extremely erroneous, as to be dangerous to the mariner who used them. He was called upon to specify his vague and general charge. He then condescended upon the rock Skerinoe, on the coast of the Lewis, on which, he said, a vessel had been lost, in fail-

ing



ing by Mr Mackenzie's chart. He was answered, that Mr Mackenzie had not surveyed that part of the coast, till after he was employed by Government, when the rock Skerinoe was properly placed; and that, in his former chart, he had told, that this part of the coast on which Skerinoe lies, was laid down from information only. It was, therefore, affirmed, that Mr Mackenzie could not be blamed for accidents which happen in consequence of inadvertency on the part of other people, as he had told precisely what had been surveyed, and what had not. This answer seems to be clear and distinct; yet, in his next paper, Dr Anderson says, that a slight apology had been made, and that Mr Mackenzie had acknowledged his having sold a chart, knowing it to be erroneous.

Dr Anderson talks of his ideas of moral rectitude: Let these be what they may, it is submitted to the public, whether this conduct be fair and honest. I cannot help concluding, that Dr Anderson must either see the plainest things in a false light, or that he does not choose to see the truth, when he thinks misrepresentation will better suit his purpose. Nothing is more evident than that Mr Mackenzie's first chart is a fair and honest chart, notwithstanding a certain part of the coast there specified had not been surveyed. Mr Mackenzie's work of the Orcades, to which this chart belongs, is now as just, as valuable and useful as it was when first published. Then what does Dr Anderson mean, in such an unjustifiable manner, to endeavour to throw  
odium

odium and blame on Mr Mackenzie? Is it because he had unjustly condemned his charts, that he must injuriously accuse himself? and will he again tell you, that I have made an apology, when I have told him plainly he is in the wrong?

So much for the Doctor's reply. But before I quit this subject, I would ask of Dr Anderson, what made the shipmaster from Liverpool trust his life and fortune to Mr Mackenzie's survey, in sailing upon an unknown coast, by his chart, without a pilot? Was it not the high reputation which those charts had acquired among mariners? And how could mariners acquire that confidence in those charts, without experience in finding them accurate, consequently useful? I cannot suppose Dr Anderson ignorant of this truth, because it was a necessary principle in his reasoning, when he said that this skipper was shipwrecked on Skerinoe, by trusting to the false chart. The chart, however, was not false, although the shipmaster was heedless. The Doctor was mistaken in thinking that the chart was false, and he was to blame in accusing Mr Mackenzie's work without examining it. Had he read the description, he would have found that the chart was accurate and true. It was accurate, so far as Mr Mackenzie's survey was concerned; and it was true or honest, in telling what parts had been surveyed, and what were only taken from information. But so far as the negligent shipmaster, who does not distinguish betwixt sailing by information and by survey, is to blame in risking his ship  
and

and cargo, Dr Anderson, who pretends to knowledge, ought to see the value of Mr Mackenzie's charts, as being far more useful than a pilot to such people as can use them.

I come now to answer Dr Anderson's second list of errors. It would take up too much of your paper, and not be worth the attention of the public, to examine every article by itself: I shall, therefore, endeavour to class them according to their different natures, in order to abridge the work. I do not propose pursuing the Doctor into the minutiae of his accusation, when he censures the shape of islands in the chart, which are little bigger than a pin's head. It is impossible that I can know at present how far the Doctor in this is either right or wrong; but, as I hope to show that Dr Anderson is altogether wrong, either in his facts or in his inferences, when he alledges great errors, I think the small ones may be allowed to take the advantage of a general amnesty.

There are to be distinguished two species of errors in the articles of charge. One of these respects the direction of specified places; the other has only a reference to their distances. These may be considered separately.

With regard to the *first*, I shall give the article of charge in the Doctor's own words. He says, ' By Mr  
' Mackenzie's map, a right line drawn from the point  
' of Ardinrider, forming the north-east side of the  
' sound of Mull, to the castle of Dunstaffnage, would  
' pass clear of the south-west point of the island of Lif-  
' more,



‘ more, leaving that island to the north of it near one  
 ‘ mile ; whereas, in *reality*, a line drawn between these  
 ‘ two points would cut the island of Lismore, between  
 ‘ two or three miles to the north of that point.’

Before answering this accusation, I would ask what it is here we are to understand by *reality*. Is not every one who reads this paragraph made to believe, that Dr Anderson, or some other person in whom he could confide, had taken an observation from the one of those distant places to the other ? But if the island lies as the Doctor says it is in *reality*, it is impossible to see one of those points from the other ; because the points here in question lie low upon the two shores, distant eleven or twelve miles ; and the island of Lismore, which he pretends lies betwixt them, is of a considerable height. The Doctor, therefore, should have told us how he came to see that line cutting off two or three miles of the island.

Now, though Dr Anderson has not chosen to give the public his authority for this direct condemnation of the chart, I shall here lay before them all the authorities in relation to this subject, and let the public judge how far Dr Anderson has dealt fairly or not by them on this occasion.

In the first place, then, there is a map of Scotland by Mr Moll, 1714, in which the south point of Lismore is a little to the north of a line drawn from Ardenrider to Dunstaffnage. In the second place, Mr Mackenzie lays it down nearly in the same way. Last-  
 ly,

ly, General Roy's map agrees with Mr Mackenzie's chart, as well as with the above map. On the other hand, Mr Dorret's map agrees with Dr Anderson's; that is to say, the south point of the island is two or three miles to the south-west of the line now specified. —If Dr Anderson has no better authority than this map, the public, who is well apprised of its inaccuracy, will not condemn me if I give a flat denial to this fact of Dr Anderson's.

The next general article, which I have to answer, regards the measurement between different places.

Dr Anderson has given many instances of these, and some of them are accompanied with alledged inaccuracy of the bearings. In all these cases, the Doctor affirms, that it is *reality* which he opposes to the chart, in showing it to be erroneous. How far this is true, or not, time will discover certainly. At present, we shall consider whether the one or the other appears to be most probable. But, before answering directly to the charge, there is a previous question, not with regard to what right the Doctor has to challenge; every one has a right to challenge an error, by which the lives and fortunes of others are endangered; but the question here proposed respects the capacity of the challenger, how far he has proper information with regard to the subject on which he founds his accusation.

Dr Anderson has not told what instruments he had employed, or what time he had spent, in making those numerous observations. But, without giving satisfac-  
tion

tion with regard at least to the probable means of information, no person has a right to offer a criticism on the work of a master who made it the business of his life.

As truth, however, fears no scrutiny, we shall at present waive this privilege of a defender.

The question now before the public, concerning those pretended errors, divides itself into two branches, each of which requires a separate answer.

First, It may be considered how far, supposing the errors proved, Mr Mackenzie's survey, or the utility of the charts, could be thereby affected?

Secondly, How far Dr Anderson has given a fair state of the case, or has endeavoured to impose upon the public?

The errors now under consideration being all concerning the distance of places over land, most of them inland, from the head of one loch to that of another, the nautical survey, or use of the charts, is little or nothing concerned with them, so far as it is a survey, strictly speaking, of the water, not of the land. For though, in making this survey, parts of the land are frequently measured, in order to form bases of observation to determine the coast, yet the distance between the head of one loch and the head of another, over land, can have little connection with those measurements which Mr Mackenzie employs in making his survey, as will appear from his book of Maritime Surveying, in which he teaches his stadiometric method. The

D

nautical



nautical survey, therefore, or the charts given for the navigation of those seas and sounds, may be sufficiently accurate, useful, and safe, notwithstanding all these errors were to be admitted.

In every species of survey, there are necessarily errors; but a nautical survey is the species in which there necessarily must be the greatest errors. Nevertheless, surveys are both valuable and useful, and may be extremely meritorious, notwithstanding of many errors in every part. The question, therefore, is, What errors each species of survey may admit of without losing its utility, or becoming unserviceable for the end of its intention? The purpose of Mr Mackenzie's survey was to make a pilot chart, such as should conduct those who were strangers to the coasts through all the different sounds, and lead them into safe anchorage. The question, with which the Public is now concerned, is not, What degree of accuracy or of error may be found in Mr Mackenzie's charts? This is merely a question of curiosity; a question to which the charts will never be ashamed to submit; but a question which would be extremely unimportant in this place.

Dr Anderson has no title to point out any error but those by which the navigation is immediately affected; an error in the chart which must be dangerous; and an error by which a mariner may suffer. It must be evident to every person who will inspect the charts, that not one of all these pretended errors is of this kind; and that Mr M'Kenzie's survey might be a survey faithfully

fully made, as well as the charts valuable and useful charts, notwithstanding we should allow all those facts stated by Dr Anderson to be in *reality* as he represents them. This, however, is the farthest in the world from being our intention. We therefore come to the second branch of the question :—And, with regard to this point, I would wish the public to distinguish the four different authorities which are now to be considered.

First, Dorret's map of Scotland ; secondly, General Roy's map ; thirdly, Mr M'Kenzie's charts ; and, 4thly, Dr Anderson's bare assertion, without any probable means of knowledge. I have compared them all, and find that Mr Dorret and Dr Anderson agree in every particular ; and that General Roy and Mr M'Kenzie uniformly agree, with one exception only. Now, if Dr Anderson has contented himself with taking Mr Dorret's authority for his accusation, he has surely attempted to impose upon the public, in making them believe that it was from actual observation. If, on the other hand, Dr Anderson has actually made those observations, which coincide so exactly with Mr Dorret's map (who never made a survey of those coasts and islands,) then Mr Mackenzie's charts and General Roy's map, both of which are from actual survey, must be erroneous. It is submitted which of these two propositions is most probable.

There is one thing which I would not have taken notice of, unless it were to show the disposition of the  
accuser,

accuser, as well as the nature of the accusation. It is an alledged discrepancy between two of Mr Mackenzie's charts.

The Doctor says, ' the distance between East and West Loch Tarbet in Harris is about 600 yards ; whereas in chart XXXI. the distance between East and West Loch Tarbets is one mile ; and between Loch Stokenish and West Loch Tarbet is only three miles and an half ; but in chart XXIX. Loch Stokenish, which is the nearest water to the East of West Loch Tarbet, is six miles distant. In both cases the errors are great ; and any person who has the plates can compare them with each other.' I have compared those plates, and do not find that they can be said to differ above half a mile. But admitting there had slipped into the plates an error of two miles and a half, as Dr Anderson alledges ; yet, if one of the charts be right, the fault does not lie at the door of the surveyor.

There remains still one thing to be answered.—It is a challenge of Dr Anderson's to lay a bett with Mr Mackenzie, that the representation of Loch Boisdale in the chart, and some other of those harbours, shall not be found accurate, compared with an actual survey, which Dr Anderson proposes to have made.

Let us suppose, that, in the numerous and extensive Lochs found in the Hebrides, and west coasts of Scotland, there should be many corners and islands in the chart not laid down with that accuracy and minute  
precision,



precision, which labour and expence might have procured : In that case, could the surveyor, who had judiciously saved to the nation the laying out of that expence, not necessary to the navigation, be accused as having mis-spent the public money, or as having led mariners into danger, in giving charts only of what was useful in those seas ? Had Mr Mackenzie, while employed by government in those surveys, consulted his own ease and safety, and not the valuable intention of his employers, he had certainly spent his time in making such plans of harbours as would have pleased Dr Anderson, and not in making that general survey of the coasts which the navigation of those seas required. The purpose of his nautical survey, was to conduct ships sailing upon those coasts into shelter and safe anchorage, without the help of pilots ; and not for the purpose of speculators, who may wish to lay out the public money in erecting either cities or fortresses within those harbours. Therefore, the Doctor's challenge to Mr Mackenzie has no tendency to clear up the point in dispute ; that is, whether or not Mr M'Kenzie had made a proper nautical survey, for the purpose of navigation.

The Dr seems to forget himself, when he talks of putting an end to all further altercation.—Does he consider as altercation, his being called upon publicly to make good his calumnious assertions ? He accused Mr M'Kenzie's charts as being erroneous and dangerous, and called the survey no better than an imposition upon the public : He has not pointed out one error, which

a navigator could possibly observe, or by which a mariner might suffer ; and now he attempts to amuse the public with a challenge, to judge the survey by a measurement of Loch Boisdale ; a natural harbour, full of islands, and of which harbour, it is evident, from the chart itself, the one-half lies beyond the reach of Mr Mackenzie's survey.

The Doctor has not referred, for authority, to any of the profession, to a person who should know a nautical chart, or to those who have had opportunity of trying Mr Mackenzie's surveys ; nor does he propose to refer the question to professional men.—He alone accuses, and he alone must be the judge.

I shall conclude this with a challenge in my turn.—It is, for Dr Anderson to seek all the world over, and name one survey, equal, in any respect, to that which it has pleased him to condemn.—That is to say, a nautical survey, which, in point of greatness in its operation, of accuracy and care in its execution, or of utility in answering the end of its intention, is equal to that which Mr Mackenzie has had the merit to accomplish.

*Dr Anderson's fourth Attack.*

S I R,

*Mercury, Jan. 31. 1785.*

IF considerable errors with respect to the bearings and distances of places be of no importance in a nautical

cal chart, as your correspondent in last Monday's paper contends; if the navigation of narrow seas be not rendered hazardous by having land laid down in the map several miles out of its true place, as he also maintains; if it be of no consequence whether rocks that are in the chart *no bigger than a pin's head* be exactly laid down, or the reverse, as he also asserts; and if, as he likewise affirms, the public money would be improperly squandered away, should the man appointed to make a nautical survey of the coast, have delineated with truth and accuracy the different harbours on that coast, Mr Mackenzie had certainly no room to be offended at Dr Anderson for taking notice of the above mentioned peculiarities in his charts. These are all the particulars he ever objected to in them. He has been called upon to condescend on examples of these peculiarities.— He has done so. The facts he has mentioned are not disproved. If Mr Mackenzie doubts the truth of them, the places themselves still exist, and may be measured so as to ascertain these facts with precision; and he is ready to have them thus ascertained on the same terms he formerly specified as to Loch Boisdale. References to maps (none of which Dr Anderson examined on this occasion but Mr Mackenzie's alone) in a case of this nature, can only be meant to multiply words with a view to conceal the truth.

With regard to the discrepancy between the xxix. and xxxi. of Mr Mackenzie's charts, any person who has these charts will find, on comparing them, that  
Loch



Loch Stoken is laid down in the one, at least five miles out of the place it occupies in the other. But as these maps are in the hands of a few only, a copy of them is left with the Printer of this paper, that any person about Edinburgh who inclines, may have an opportunity of satisfying himself as to this particular.

Dr Anderson is ashamed at having been inadvertently drawn into an altercation, with a person who seems to have no other aim but to misrepresent facts; one of these misrepresentations only he thinks it necessary to take notice of.—He has been accused of intending *maliciously* to hurt Mr Mackenzie's character with regard to the rock Skerinoe. The reader, however, may easily recollect, that, when he first mentioned that rock, it was not adduced as one of the errors he had taken notice of in the charts (as this writer has so often confidently asserted he had done); on the contrary, after having declined at that time to specify any of those errors, for reasons then assigned, he mentioned the Skerinoe rock, merely with a view to give Mr Mackenzie an opportunity, in a public manner, to exculpate himself from an accusation he had often heard brought against him, viz. that of selling a faulty chart knowing it to be so. At that time, he did imagine, that gentleman would have no difficulty on that head; for he had been told, that a surreptitious edition of these charts had been printed in Ireland, which, by having a London title page, might have been sold as his, to the prejudice of the author, both as to pecuniary advantage,

tage, and otherwise.—He, therefore, certainly meant to do Mr Mackenzie a service on that occasion. It now appears he was mistaken in that respect. The maps complained of, are acknowledged to be sold by Mr Mackenzie himself till the present time; and an exculpation of his moral character, for still continuing to sell these defective maps, has been offered.—How far that apology proves satisfactory, the public will judge, from the following fair state of the case.

It has been urged by his apologist, that, in the introduction to the first set of maps, he had mentioned that the south-east coast of Lewis had been laid down from *information only*. It ought, however, to have been added, that in the very next paragraph to the above, in the same introduction, it is said—*Since the first publication of these draughts, ONE mistake has been discovered in them, &c.*—This single error relates to the Island of Copinshaw.—From the above notification, is it not natural to infer, that no other error but the *one* there specified had been discovered by Mr Mackenzie, between the publication of the maps, and the time that any particular copy of them had been sold by the author? If so, would not any person who bought these maps, after the time that he knew Mr Mackenzie had actually surveyed that part of the coast of Lewis, have good reason to suppose, that he had discovered no error by that survey, and might he not naturally conclude, that he had Mr Mackenzie's authority to rely on the accuracy of that part of the map, as well as those

E

other

other parts that had been formerly surveyed by him ? An honest man might, at least, have been thus innocently misled ; and in a case of so much importance, where a correction might have been made for a few shillings, merely by effacing the Skerinoe rock from the faulty chart, some men would have thought that no room should have been left for a possibility of committing a mistake.

[We are sorry this controversy has run out to such a length ; and are, therefore, persuaded most of our readers will think us justified in putting a negative on any thing farther that may be offered on the subject from either party. Dr A. has brought the matter in dispute to the test of ocular demonstration ; and any person who chooses may be satisfied, by calling at the printing-office.]

---

*Answer to Dr Anderson's last Letter.*

**D**OCTOR ANDERSON began with making a public accusation of Mr M'Kenzie's surveys. Upon the modest requisition of Mr M'Kenzie, Dr Anderson added insult to injury. Being  
closely



closely followed by inquiry, he advanced facts without a just foundation; and now he endeavours to impose upon the public, by misrepresenting certain arguments which had been employed in justifying the survey, and detecting his false accusations. In his paper of the 31st of January, he sets out, by framing four abstract propositions, to each of which he has annexed certain pretended assertions of mine, assertions which I never made, but which, by wresting the meaning of my arguments, he has fabricated for me, in order to serve the purposes of his sophistry, by which he flatters himself that he will escape censure. For example,

I have not said, as is alledged by Dr Anderson, that the public money would have been squandered away, if the man appointed to make a nautical survey of the coast had delineated, with truth and accuracy, the different harbours on that coast; the purport of what I said was this, that Mr McKenzie, having been employed by government to make a general nautical survey, would have mispent his time, if he had employed it on objects not properly belonging to his survey. He might, therefore, with some reason, have been reproached with having squandered the public money, if he had consulted his own ease and safety, by drawing plans of harbours, instead of risking his life, and wearing out his constitution, in the faithful discharge of his duty; that is, if he had delineated the numberless harbours in the west of Scotland, for the purpose of building cities, instead of making sea-charts for conducting ships, among  
those

those islands, into safe anchorage. The purpose of this argument was, *first*, to show that Dr Anderson had most unjustly accused Mr M'Kenzie of having mis-spent the public money, when Mr M'Kenzie had truly saved it by every means in his power ; and, *secondly*, to show that the Doctor had falsely accused Mr M'Kenzie's survey, as being inaccurate, when his charts give to the mariner all that is required for the safety of the navigation, although not *all* that might have been given, had he been employed to make plans of harbours. Again,

I have said, that this survey might have been faithfully made, and the charts have been valuable and useful, although we should allow all those facts stated by Dr Anderson, with regard to the distance of inland places, to be in reality as he represented them. This argument I employed to show the Doctor's want of judgment in pointing out such things in a sea-chart, which, supposing them to be errors, could not affect the utility of the charts. But I also said, that there was no reason for such a supposition ; for, on the contrary, I was to disprove those alledged facts.

I have also said, that I did not propose to pursue Dr Anderson into the minutiae of his accusation, when he quarrels the shape of islands, which, in the charts, are not much larger than a pin-head ; because, having to prove such of the Doctor's facts, as were properly examinable, to be falsehoods, those, which could not be thus examined, might fairly be considered as not worth  
the

the pains of an investigation. It may now be observed, that this has been done, as far at least as it was possible, without having recourse to another actual survey, with which that of Mr M'Kenzie's might be compared. And now Dr Anderson, in his answer, says, '*the facts he has mentioned are not disproved.*'

Here is a piece of impudence, which nothing but bad principles could suggest, and which nothing but the deepest sophistry could cover. In opposition to Mr M'Kenzie's actual survey, he gives, for facts, downright falsehoods; and then he says these facts are not disproved. Why? Because, *if Mr M'Kenzie doubts the truth of them, the places themselves still exist, and may be measured, so as to ascertain these facts with precision.* A thief, who had stolen a horse, may escape the gallows, if his pursuer has not proved the theft; because the law presumes every man to be honest who is not proved to be a thief. But Dr Anderson will not be allowed to shelter himself under this sanctuary of the law. The presumption of honesty and truth is all in favour of Mr M'Kenzie's survey—the work of thirty of his best years—the child of scientific knowledge—and the fruit of skill, bought at the price of labour and of danger. There is not even required that universal approbation, which his labours have received from experienced and professional men, to exempt him from the disagreeable necessity of defending his charts, by proving Dr Anderson's allegations to be ill-founded. Dr Anderson has made the most violent attack upon the property of a  
person



person who never injured him ; he has made the most insidious, as well as cruel attack, upon the fame of a well deserving citizen. Therefore, he must either prove that he had made the *survey* on which he grounds his accusation, or he must be condemned, as bearing false witness against his neighbour.

I call the attention of the public to this cause, where truth, and the dearest rights of mankind, are concerned. That which is Mr M'Kenzie's case to-day, may be the case of any other man to-morrow. If the world will not stigmatize the person who most unprovokedly has violated truth, and has wilfully transgressed the most sacred law of society, there would be no principle of morality in man.

Dr Anderfon now denies his having consulted Dorrot's map ; his method of wording this denial is somewhat remarkable. *References to maps, (none of which Dr Anderfon examined on this occasion but Mr M'Kenzie's.)* Does he mean to save his conscience with the subterfuge of having employed the copies of Mr Dorrot's map now published by Mr Ainslie and Mr Knox ? or does he expect more credit from these copies than from the original ? He would deceive the world, but he deceives himself. He dare not say he had employed no map whatever, in fabricating those pretended errors of the survey ; for then he is aware the following questions would be put. Was it by inspiration that you arrived at the knowledge of those errors you have mentioned, and of all those which you have said  
you

you had still in reserve? Or, was it in the ordinary way, by employing instruments for measuring distances and taking bearings? He is conscious that he did not use the proper means; he also perhaps knows that he is incapable of doing it, were he so inclined; he therefore preserves a guilty silence with regard to his means of knowledge; and, in order to mislead the judgment of the public, he only says, I have not on this occasion examined any of those maps, to which you have referred, but Mr M'Kenzie's alone.

The discrepancy of Mr M'Kenzie's charts is a subject below notice, and has already been sufficiently answered; but, since Dr Anderson plumes himself in lodging his charts at his printer's, and since his printer has decided the cause in Dr Anderson's favour, on this account, an attested measurement shall be subjoined.

Dr Anderson's pretended good intentions to Mr M'Kenzie in giving him an opportunity of *exculpation*, as he terms it, is nothing but a pitiful attempt to draw the attention of the public from his own guilty conduct; and the laboured discourse which he has given upon this subject is so little to the purpose, that it should have no answer, were not Mr M'Kenzie's character mentioned in his argument. Dr Anderson talks ignorantly when he proposes to correct Mr M'Kenzie's charts. There is no error in them to correct; at least, Dr Anderson has not pointed out any. But I believe it is not ignorance alone that makes Dr Anderson still continue to consider the rock Skerinoe, either as an  
error

error or a fault, when it is neither. Mr M'Kenzie published his charts faithfully, and told their imperfections. Any person who buys the *Orcades*, may make what changes he pleases upon the chart, if he thinks to better it; but, Mr M'Kenzie has nothing to alter, having mentioned the imperfections of the charts; and Dr Anderson is extremely impertinent for supposing that Mr M'Kenzie's character in this respect had ever any occasion for apology.

Dr Anderson says, *he is ashamed at having been inadvertently drawn into an altercation with a person who seems to have no other aim but to misrepresent facts.* I have represented Dr Anderson's facts, I believe, in their proper light; and I have now to tell him, that there are other parts of his conduct of which he should be more ashamed; *first*, of having wickedly devised evil against his neighbour without cause; and, *secondly*, of having foolishly departed from the path of truth in expectation of supporting his calumnious assertions. What benefit he promised to himself for thus transgressing the law of natural benevolence, implanted in the heart of man, and never violated without some reason, he best can answer. I believe he now repents, because his purpose has been frustrated. How he settles the account with his conscience, it becomes not me to inquire; but an injured public will not fail, I hope, to resent the open violation of that which is right and amiable in the eyes of all other men.

The



The friends of Mr M<sup>c</sup>Kenzie having now said what was thought necessary, in justification of themselves, when attacked by Dr Anderson in his last letter, they will close the whole by (what must be admitted to be the best evidence possible in support of Mr M<sup>c</sup>Kenzie's survey) certificates from those who are most interested, and who alone have a title to judge—Commanders and Masters of vessels,—and Branch Pilots.

*Certificate from Mr Laurie engineer concerning Lochs Stockenish and Tarbat.*

*To Mr Murdoch M<sup>c</sup>Kenzie.*

S I R,

*Edinburgh, April 16. 1785.*

Having been desired to examine your sea charts, in respect to the distance between Loch Tarbat and Loch Stockenish, alledged by Dr Anderson to be laid down three and a half miles in chart thirty-one, and six miles in chart twenty nine ;

These are to certify, that, so far from finding any such discrepancy, viz. two miles and a half, as alledged by Dr Anderson, I find the difference of distance, betwixt the nearest water of the one, and the nearest water of the other, of these two lochs, in these two charts, to be so insignificant, as hardly to be measurable by the scale of said maps. The copy of the charts

F

which

which I examined are those belonging to the custom-house of this place.

*John Laurie* engineer.

*Letter from Mr William Patterfon, Kirkwall,*

*To Mr Murdoch M'Kenzie.*

S I R,

*Kirkwall, Dec. 11. 1784.*

I am extremely sorry to see you lately attacked on some part of your Surveys, and I think it very surprising that, such a number of years have elapsed, these neglects you are charged with was not found out sooner, where there has been a constant course of shipping and experienced seamen, till a Dr Anderson would do it. It is a known fact in this country, that, before your surveys of the West of Britain and Ireland was published, that there were from ten to fifteen pilots employed in Stromness, by shipping going to Liverpool and Ireland, and more needed if they could been had ; and since that, no capable shipmaster, going to these places, takes a pilot, that has your surveys. I have frequently heard sensible masters of ships say, none who understood a map needed a pilot where you surveyed, if he had your's. But I really think, Sir, that Dr Anderson has imagined you in Abraham's bosom, and that he did not expect an answer. It is common for those employed as he is to find faults with others that have gone before

fore on the same plan, (however right), to raise their own merit, which always proceeds from ambition, avarice, and mercenary motives. But I believe that Dr Anderson will as soon make new rocks to grow where you have surveyed, as he will prevent experienced seamen travelling from fear, where they are sure of safety. I am truly sorry you have met with this unexpected matter to give you uneasiness, but I hope you don't much regard it. I am, with the greatest respect and esteem,

Dear S I R,

Your obliged humble servant,

*Will. Patterson.*

*Liverpool Certificate.*

*Liverpool, January 18. 1785.*

We commanders and masters of vessels in Liverpool, trading to Norway, Hamburgh, the Baltic, &c. being informed that malicious remarks have been sent abroad, reflecting on Mr M'Kenzie's Charts of the West Coast and Islands of Scotland, Do hereby certify to all whom it may concern, that we have always found these charts sufficiently exact for navigating ships with safety among the islands, or between them and the main-land, and, by his improved method in them, the great diversity of high and low lands, cliffs, shores, &c. are so remarkably distinguished, as to make them easily known, so that we can proceed with more confidence,  
and



and have found them surer guides than any other charts we have ever seen.

William Gibbons.

Henry Frewhett.

John Smith.

John Johnson.

Thomas Phillips.

John Joy.

John Briggs.

John Sherrard.

Lancelot Smith.

Hugh Bell.

Thomas Potts.

David Gavin.

John Meadley.

William Fountains.

John Hudson.

Robert Batson.

Thomas Wilson.

Thomas Swainston.

Lionel Trotter.

Joseph Colling.

James Finchett.

Stephen Ryder.

James Ryder.

Rather than take a pilot at the Orkneys, I bought Mr M'Kenzie's Charts, which answered my purpose very well, and proved a great saving in pilotage.

William Ward.

These are to certify whom it doth or may concern, that Robert Stewart, master of the Lady's Adventure, nor any of my ship's company, was ever at Liverpool before, and, by the assistance of Mr M'Kenzie's Draughts, and nothing else but God's blessing, went clear of every danger.

Robert Stewart.

*Leith*

*Leith Certificate.*

*To Mr Murdoch M'Kenzie.*

S I R,

We, commanders and masters of vessels in Leith, navigating the Orkneys and west coasts of Britain, do hereby certify that we have always found Mr Murdoch M'Kenzie's charts sufficiently exact for navigating ships amongst the Islands and upon the coasts; and, by his improved method in them, the great diversity of high and low lands, cliffs, shores, &c. are so remarkably distinguished as to make them easily known; so that we can proceed with more confidence, and have found them surer guides than any other charts we have ever seen.

John Ogilvie Commander of an Excise Yacht.

Duncan Aire Cammander of ditto.

Laurence Brown Commander of a Custom-house Yacht.

William Robertson, and Branch Pilot.

William Smith.

James Spittle Branch Pilot.

John Crawford, and was Branch Pilot.

Peter Couper.

William Couper.

James Hunter, master of a Vessel, and Branch Pilot.

William Hunter.

Duncan

Duncan Grant.

John Dingwall.

Colin Henderfon.

James Buchanan, and Branch Pilot.

John Dickson, and Pilot through the Highlands.

D. Stevenson, and Branch Pilot.

Alexander Landale, and Branch Pilot.

Alexander Gellyew.

Robert Kay, and Pilot.

John Houston.

*Letter from Captain Jona. Fowler,*

*To Mr Murdoch M<sup>c</sup>Kenzie.*

Dear S I R,

*Stockton, 29th Dec. 1784.*

Your's of the 24th inst. came safe to hand ; and I can't help being exceedingly surpris'd that any one shou'd report your charts to be erroneous, as I have never heard any seaman that had us'd them, find any fault with them ; and, for my own part, I can with great truth assert, the charts of Orkney and Lewis Islands, (so far as I had occasion to try them) are correct, to the greatest nicety.—Mr Graham was mistaken in saying the Hudson's Bay Company's ships pass'd thro' the Western Islands of Scotland. But I went into Stornoway harbour without a pilot, in the year 1761, entirely by the help of your chart of the place ; and, when  
the



the people of the place came on board, and found I had no pilot, they wonder'd, and said they were sure I must have your charts on board. I have inclos'd a certificate; and I beg you will make use of my name, as believing your works to be without fault. And am,

Dear Sir,

Your obliged humble Servant,

JONA. FOWLER.

*Certificate from Captain Jona. Fowler.*

These are to certify those it may concern, that, for more than 25 years, I have us'd Mr M<sup>c</sup>Kenzie's charts, in passing and repassing thro' the Islands of Orkney, and always found them particularly correct. And I once had occasion to go into the harbour of Stornaway, in the Island of Lewis, and carried the ship in, without a pilot, but entirely by the help of the above gentleman's chart of that harbour. As witness my hand, at Stockton, this 29th of December 1784.

JONA. FOWLER.

*Letter from Mr John M'Clear, Leith,*

*To Mr Murdoch M'Kenzie.*

S I R,

I H E A R that one Dr Anderson has been finding fault with your draughts of the West of Scotland, and has wrote against them in the news-papers. This surprised me very much; for you must know that I was born in one of these islands, and accustomed to shipping from my youth, and since that have been master of a vessel and pilot for forty years; have had the charge of King's cutters and many merchant-ships through the Highlands, and as far as Liverpool, when your draughts were aboard, and never had reason to find fault with them, nor ever heard any captain or shipmaster say they found them wrong; on the contrary, every one of them, as well as myself, approved of them much, as the best they ever saw. I own, indeed, they have done prejudice to the pilots; for, to my knowledge, many of them that used to be well employed and well paid, before your charts came out, are now obliged to stay at home idle, or enter before the mast, because masters through the Highlands, to the west of England and to Ireland, sail by your draughts without taking a pilot. I believe Mr Anderson is not well acquainted with sailing, or sea charts, or he would not have fallen foul of such a performance, Stornaway pilots hath  
suffered

suffered much by your draughts, as hath the Orkney pilots; for, formerly, few ships attempted to go westward from Stromness without pilots, and now very few of us are employed, the shipmasters telling that they can do very well with M<sup>c</sup>Kenzie's draughts. I am a well-wisher to all honest men, and, SIR,

Your most humble servant,

JOHN M<sup>c</sup>CLEAR.

*Leith, 8th February 1785.*

*Certificate from Captain Alexander Cook,*

*To Mr Murdoch M<sup>c</sup>Kenzie.*

I ALEXANDER COOK, commanding a vessel in the service of the Revenue of Customs, do certify, That, in the course of my cruizes through the Orkneys and Western Islands, I have always made use of Mr Murdoch M<sup>c</sup>Kenzie's charts, and have found them sufficiently exact for navigating ships amongst the islands and upon the coasts; and, by his improved method in them, the great diversity of lands, cliffs, and shores, are so remarkably distinguished as to make them easily known; so that I can proceed with the greatest confidence, and have found them surer guides than any other charts I have seen.

ALEX. COOK.

*12th April 1785.*

G

*Letter*



*Letter from Captain Thomas Alexander, Leith.*

*To Mr Murdoch M'Kenzie.*

GOOD SIR,

*Leith, Feb. 11. 1785.*

Reading in the Newspapers a violent attack made on you and your charts of the West Highlands, I can say it is a false and cruel attack. I have been pilot of his Majesty's ships, and other respectable merchant ships belonging to Liverpool, and elsewhere; and, by depending on your charts, through the Orkney islands, and oftner through the West Highlands, to and again, have been successful, and trust in Almighty God to continue to be successful, as I get an honest and very good livelihood by piloting vessels. I am,

Good SIR,

Your unknown humble servant,

*Thomas Alexander.*

*Letter*

*Letter and Certificate from Captain Campbell, Commander of the Prince of Wales cutter of Greenock, in the service of the Board of Customs, on board of which vessel Dr Anderson made his voyage to the Hebrides.*

S I R,

I HAVE received your letter of the 9th, which should have been answered much sooner, had it not been for much hurry in forwarding the cutter repairs.

Inclosed I beg leave to send you my real opinion of Mr M'Kenzie's charts. They are certainly the very best that ever was done, though there may be different small errors in them, that does not signify much in most part of the coast that I had occasion to use them.

am, respectfully, S I R,

Your most obedient and

very humble servant,

JOHN CAMPBELL.

*Greenock, 18th April 1785.*

*Certificate.*

I JOHN CAMPBELL, commander of the Prince of Wales cutter in the service of the Revenue, do hereby certify, That Mr Murdoch M'Kenzie's charts are truly

ly the very best I ever have seen of the kind, and that, so far as I have had occasion to use them upon the west coast, and through the islands of North Britain, I found them always of great service, notwithstanding there may be some small overlooked errors in them.

JOHN CAMPBELL.

*Letter from Captain James Hamilton, commander of the Prince William Henry cutter, in the service of the Board of Customs.*

DEAR SIR,

I RECEIVED your favour of 9th current. So much have I been out of the earthly world, that I never heard of the disputes about Mr M'Kenzie's charts before I received your letter. I have only to observe, that, as far as I can judge, that they are the best charts I ever saw of these coasts, but not without errors, though these are but few, considering the extent, and difficulties that must have attended such a survey.

I am, Dear Sir,

Your most obedient servant,

JAMES HAMILTON.

*Prince William Henry cutter, }  
Wigton-bay, April 30. 1785. }*

*Letter*



*Letter from Captain James Crawford, commander of the  
Combraes cutter, in the service of the Board of Customs.*

DEAR SIR,     *Port Glasgow, April 30. 1785.*

YOUR letter of the 9th instant to Stranrawer is but this moment sent up to me by my mate.

I am a great advocate for Mr M'Kenzie's charts, because they are the best I ever saw; but then I could not certify them free of errors, as I have heard of several, and believe them to be true. Every surveyor is liable to error, and his is the best that I know of. I have desired our shoremaster to request the favour of those masters of vessels that can, to certify their opinion of them, for I'm not able at present to go out myself. If you had desired the Collector to do this as they come and clear out, it would have done better. I never saw Dr Anderson's attack on these charts, but I have heard of it.

Your's faithfully,

JAs. CRAWFORD.

*Second Letter from Captain James Crawford; Port  
Glasgow.*

S I R,

I WROTE you that, as I was indisposed myself, and not going about, I had put the certificate into the hands of our shore-master, to be presented to and signed by the shipmasters who had perused Mr MacKenzie's charts; I now beg leave to send it signed by all the Captains who are at present at home here, and have experienced the draughts, and if it shall be of any consequence to have it signed by those at Greenock, you will please to return it, and I shall have it presented to them for that purpose, as I will be extremely happy to render you or him any service in my power, and indeed his charts demands every testimony of their utility and correctness from those that have perused them.

Faithfully and truly yours,

*Port Glasgow, May 10. 1785.*

JAMES CRAWFORD.

*Certificate.*

*Port Glasgow, May 2. 1785.*

We Commanders and Masters of vessels belonging to the Clyde, navigating the Orkneys and West Coasts of Britain, do hereby certify, that in the experience we have had with Mr M'Kenzie's charts, we have always found them most accurate and just in navigating ships amongst the islands and upon the coast; and by his improved method in them, the great diversity of high and low lands, cliffs, shores, &c. are so remarkably distinguished, as to make them easily known, so that we can proceed with more confidence, and have found them surer guides than any other charts we have ever seen.

*Jas. Crawford, Cutter.*

*James Gordon, Shipmaster.*

*James King, jun. ditto.*

*John Paterson, ditto.*

*William M'Gill, ditto.*

*John Lusk, ditto.*



*Second Letter from Captain James Crawford, Port  
Glasgow.*

S I R,

I WROTE you that, as I was indisposed myself, and not going about, I had put the certificate into the hands of our shore-master, to be presented to and signed by the shipmasters who had perused Mr MacKenzie's charts; I now beg leave to send it signed by all the Captains who are at present at home here, and have experienced the draughts, and if it shall be of any consequence to have it signed by those at Greenock, you will please to return it, and I shall have it presented to them for that purpose, as I will be extremely happy to render you or him any service in my power, and indeed his charts demands every testimony of their utility and correctness from those that have perused them.

Faithfully and truly yours,

*Port Glasgow, May 10. 1785.*

JAMES CRAWFORD.

*Certificate.**Port Glasgow, May 2. 1785.*

We Commanders and Masters of vessels belonging to the Clyde, navigating the Orkneys and West Coasts of Britain, do hereby certify, that in the experience we have had with Mr M'Kenzie's charts, we have always found them most accurate and just in navigating ships amongst the islands and upon the coast; and by his improved method in them, the great diversity of high and low lands, cliffs, shores, &c. are so remarkably distinguished, as to make them easily known, so that we can proceed with more confidence, and have found them surer guides than any other charts we have ever seen.

*Jas. Crawford, Cutter.**James Gordon, Shipmaster.**James King, jun. ditto.**John Paterson, ditto.**William M'Gill, ditto.**John Lusk, ditto.*

[illegible]

*[Faint, illegible handwritten notes]*



